



2005_1843A 8.31.2006 rev seq listing
SEQUENCE LISTING

<110> Japan Science and Technology Corporation
UMEZAWA, Yoshio

<120> Probe for visualizing protein interaction and method of analyzing
protein-protein interaction using the same

<130> 2005_1843A/JFW/00653

<140> PCT/US 10/557,992
<141> 2005-11-22

<150> PCT/JP 2004/007245
<151> 2004-05-20

<150> JP 2003-145466
<151> 2003-05-22

<160> 7

<170> PatentIn version 3.3

<210> 1
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<213> Renilla reniformis

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Met Thr Ser Lys Val Tyr Asp Pro Glu Gln Arg Lys Arg Met Ile Thr
1 5 10 15

Gly Pro Gln Trp Trp Ala Arg Cys Lys Gln Met Asn Val Leu Asp Ser
20 25 30

Phe Ile Asn Tyr Tyr Asp Ser Glu Lys His Ala Glu Asn Ala Val Ile
35 40 45

Phe Leu His Gly Asn Ala Ala Ser Ser Tyr Leu Trp Arg His Val Val
50 55 60

Pro His Ile Glu Pro Val Ala Arg Cys Ile Ile Pro Asp Leu Ile Gly
65 70 75 80

Met Gly Lys Ser Gly Lys Ser Gly Asn Gly Ser Tyr Arg Leu Leu Asp
85 90 95

His Tyr Lys Tyr Leu Thr Ala Trp Phe Glu Leu Leu Asn Leu Pro Lys
100 105 110

Lys Ile Ile Phe Val Gly His Asp Trp Gly Ala Cys Leu Ala Phe His
115 120 125

Tyr Cys Tyr Glu His Gln Asp Lys Ile Lys Ala Ile Val His Ala Glu
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130

135

140

Ser Val Val Asp Val Ile Glu Ser Trp Asp Glu Trp Pro Asp Ile Glu
145 150 155 160

Glu Asp Ile Ala Leu Ile Lys Ser Glu Glu Gly Glu Lys Met Val Leu
165 170 175

Glu Asn Asn Phe Phe Val Glu Thr Met Leu Pro Ser Lys Ile Met Arg
180 185 190

Lys Leu Glu Pro Glu Glu Phe Ala Ala Tyr Leu Glu Pro Phe Lys Glu
195 200 205

Lys Gly Glu Val Arg Arg Pro Thr Leu Ser Trp Pro Arg Glu Ile Pro
210 215 220

Leu Val Lys Gly Gly Lys Pro Asp Val Val Gln Ile Val Arg Asn Tyr
225 230 235 240

Asn Ala Tyr Leu Arg Ala Ser Asp Asp Leu Pro Lys Met Phe Ile Glu
245 250 255

Ser Asp Pro Gly Phe Phe Ser Asn Ala Ile Val Glu Gly Ala Lys Lys
260 265 270

Phe Pro Asn Thr Glu Phe Val Lys Val Lys Gly Leu His Phe Ser Gln
275 280 285

Glu Asp Ala Pro Asp Glu Met Gly Asn Tyr Ile Gln
290 295 300

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<220>
<223> synthesized oligopeptide

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Thr Glu Glu Ala Tyr Met Lys Met Asp Leu Gly Pro Gly
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<210> 3
<211> 300
<212> PRT
<213> Renilla reniformis

<400> 3

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Met Thr Ser Lys Val Tyr Asp Pro Glu Gln Arg Lys Arg Met Ile Thr
1 5 10 15

Gly Pro Gln Trp Trp Ala Arg Cys Lys Gln Met Asn Val Leu Asp Ser
20 25 30

Phe Ile Asn Tyr Tyr Asp Ser Glu Lys His Ala Glu Asn Ala Val Ile
35 40 45

Phe Leu His Gly Asn Ala Ala Ser Ser Tyr Leu Trp Arg His Val Val
50 55 60

Pro His Ile Glu Pro Val Ala Arg Cys Ile Ile Pro Asp Leu Ile Gly
65 70 75 80

Met Gly Lys Ser Gly Lys Ser Gly Asn Gly Ser Tyr Arg Leu Leu Asp
85 90 95

His Tyr Lys Tyr Leu Thr Ala Trp Phe Glu Leu Leu Asn Leu Pro Lys
100 105 110

Lys Ile Ile Phe Val Gly His Asp Trp Gly Ala Ala Leu Ala Phe His
115 120 125

Tyr Cys Tyr Glu His Gln Asp Lys Ile Lys Ala Ile Val His Ala Glu
130 135 140

Ser Val Val Asp Val Ile Glu Ser Trp Asp Glu Trp Pro Asp Ile Glu
145 150 155 160

Glu Asp Ile Ala Leu Ile Lys Ser Glu Glu Gly Glu Lys Met Val Leu
165 170 175

Glu Asn Asn Phe Phe Val Glu Thr Met Leu Pro Ser Lys Ile Met Arg
180 185 190

Lys Leu Glu Pro Glu Glu Phe Ala Ala Tyr Leu Glu Pro Phe Lys Glu
195 200 205

Lys Gly Glu Val Arg Arg Pro Thr Leu Ser Trp Pro Arg Glu Ile Pro
210 215 220

Leu Val Lys Gly Gly Lys Pro Asp Val Val Gln Ile Val Arg Asn Tyr
225 230 235 240

Asn Ala Tyr Leu Arg Ala Ser Asp Asp Leu Pro Lys Met Phe Ile Glu
245 250 255

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Ser Asp Pro Gly Phe Phe Ser Asn Ala Ile Val Glu Gly Ala Lys Lys
260 265 270

Phe Pro Asn Thr Glu Phe Val Lys Val Lys Gly Leu His Phe Ser Gln
275 280 285

Glu Asp Ala Pro Asp Glu Met Gly Asn Tyr Ile Gln
290 295 300

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<223> synthesized oligopeptide

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Cys Leu Ser Leu Ala Ser Asn Asn Gly Asn Gly Arg Asn Gly Ala Ser
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Leu Glu

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Pro Arg Gly Asn Asn Gly Gly Asn Asn Asp Val Met Ala Ile Ala Ala
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Asn

<210> 6
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Met Thr Ser Lys Val Tyr Asp Pro Glu Gln Arg Lys Arg Met Ile Thr
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Gly Pro Gln Trp Trp Ala Arg Cys Lys Gln Met Asn Val Leu Asp Ser
20 25 30

Phe Ile Asn Tyr Tyr Asp Ser Glu Lys His Ala Glu Asn Ala Val Ile
35 40 45

Phe Leu His Gly Asn Ala Ala Ser Ser Tyr Leu Trp Arg His Val Val
50 55 60

Pro His Ile Glu Pro Val Ala Arg Cys Ile Ile Pro Asp Leu Ile Gly
65 70 75 80

Met Gly Lys Ser Gly Lys Ser Gly Asn Gly Ser Cys Leu Ser Leu Ala
85 90 95

Ser Asn Asn Gly Asn Gly Arg Asn Gly Ala Ser Leu Glu Thr Glu Glu
100 105 110

Tyr Met Lys Met Asp Leu Gly Pro Gly Thr Arg Glu Gln Lys Leu Ile
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Ser Glu Glu Asp Leu
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Met Asp Ala Glu Trp Tyr Trp Gly Asp Ile Ser Arg Glu Glu Val Asn
1 5 10 15

Glu Lys Leu Arg Asp Thr Ala Asp Gly Thr Phe Leu Val Arg Asp Ala
20 25 30

Ser Thr Lys Met His Gly Asp Tyr Thr Leu Thr Leu Arg Lys Gly Gly
35 40 45

Asn Asn Lys Leu Ile Lys Ile Phe His Arg Asp Gly Lys Tyr Gly Phe
50 55 60

Ser Asp Pro Leu Thr Phe Asn Ser Val Val Glu Leu Ile Asn His Tyr
65 70 75 80

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Arg Asn Glu Ser Leu Ala Gln Tyr Asn Pro Lys Leu Asp Val Lys Leu
85 90 95

Leu Tyr Pro Val Ser Lys Tyr Gln Gln Pro Arg Gly Asn Asn Gly Gly
100 105 110

Asn Asn Asp Val Met Ala Ile Ala Ala Asn Tyr Arg Leu Leu Asp His
115 120 125

Tyr Lys Tyr Leu Thr Ala Trp Phe Glu Leu Leu Asn Leu Pro Lys Lys
130 135 140

Ile Ile Phe Val Gly His Asp Trp Gly Ala Cys Leu Ala Phe His Tyr
145 150 155 160

Ser Tyr Glu His Gln Asp Lys Ile Lys Ala Ile Val His Ala Glu Ser
165 170 175

Val Val Asp Val Ile Glu Ser Trp Asp Glu Trp Pro Asp Ile Glu Glu
180 185 190

Asp Ile Ala Leu Ile Lys Ser Glu Glu Gly Glu Lys Met Val Leu Glu
195 200 205

Asn Asn Phe Phe Val Glu Thr Met Leu Pro Ser Lys Ile Met Arg Lys
210 215 220

Leu Glu Pro Glu Glu Phe Ala Ala Tyr Leu Glu Pro Phe Lys Glu Lys
225 230 235 240

Gly Glu Val Arg Arg Pro Thr Leu Ser Trp Pro Arg Glu Ile Pro Leu
245 250 255

Val Lys Gly Gly Lys Pro Asp Val Val Gln Ile Val Arg Asn Tyr Asn
260 265 270

Ala Tyr Leu Arg Ala Ser Asp Asp Leu Pro Lys Met Phe Ile Glu Ser
275 280 285

Asp Pro Gly Phe Phe Ser Asn Ala Ile Val Glu Gly Ala Lys Lys Phe
290 295 300

Pro Asn Thr Glu Phe Val Lys Val Lys Gly Leu His Phe Ser Gln Glu
305 310 315 320

Asp Ala Pro Asp Glu Met Gly Lys Tyr Ile Lys Ser Phe Val Glu Arg
325 330 335

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Val Leu Lys Asn Glu Gln Pro Arg Asp Tyr Lys Asp Asp Val Val Lys
340 345 350